

3/193/63/060/001/001/008

A004/A101

Production and prospects of using steels with...

duction and the strength characteristics of the MCr.3 (M3t. 3) and MCr .3KU (M3t. 3kp) grade steels. They report that, at present, work is being performed to expand the assortment of semi-killed steels at the "Zaporozhstal" Plant. It must be taken into account, however, that semi-killed steels with medium and high degree of reduction possess a considerably higher tendency to ageing and a lower cold resistance than killed steels. There are 2 tables and 1 figure.

Card 2/2

LITVINENKO, D.L.; SHCHASTNYI, P.M.; YAKUSHIN, V.I.; VASIL'YEV, A.N.;  
PODNOGIN, I.Ye.; YUDIN, N.S.; YEVSTAF'YEV, Ye.I.; RUBINSKIY, P.S.;  
ELIMELAKH, R.Z.; MERSHCHIY, N.P.

Greater use in industry of semikilled steel. Metallurg 8 no.3:10-19  
(MIRA 16:3)  
Mr '63.  
(Steel—Metallurgy)

YAKUSHIN, V. P., and Brinberg, I. L.

"The Unification of TsNIITMash Welding Tractors," (Avto. Delo, 1952, 23 Jan., p. 16)

The U.T. series of submerged arc welding tractors, designed and constructed by TsNIITMash, has been simplified and modernised and now consists of two models only, the light model UT-1250 giving welding currents from 300-1250 amps. and the heavy model UT-2000M, giving a range of 300-2000 amps. A line drawing is provided of the heavy model and there are several illustrations showing how it can be set up for various types of welding. The main specifications are listed.

Each model comprises a welding head, flux pad and wire feed, arranged on a beam which may be carried on or underslung from a self-propelled carriage.

VI

YAKUSHEV, V.K.  
August 1955

2/5 I. L. Brinberg, P. G. Kypalko,  
u. P. Khrobastov, & F. Yakushev

Some ways superior to that of longitudinal welding  
is the helical seam welding of the specimens of the

the desired section of the seam. The auxiliary operations  
of end-to-end joining of the strip and cutting off of the  
finished tube also needed time development, since  
mechanical cutting is not practical in a wound tube  
because it is not sufficiently rigid.

The principal problem in the development of the process  
of welding of 100 mm height is due to the following: under the  
conditions of the experiment, the welding was carried out

main width.

In the development of helical seam welding, it was  
necessary to solve several fundamental problems.  
Insofar as all processes of tube manufacture are con-  
tinuous, the output is determined by the least produc-  
tive operation. This operation is the automatic welding  
of the helical seam. For this reason, the main task was  
the development of a welding process with the highest  
possible welding speed, and without violating the  
essential conditions in tube welding, i.e., full  
throughout the depth of the joint, despite welding from  
one side only, and full joint strength and formation of  
edges of the weld.

Preliminary experiments were carried out on flat  
strips set at a slope, to simulate the lead of the helical  
seam in the tube. By "slope" means, the favourable in-  
fluence of the lead on the formation was discovered.

Using a silicon-manganese electrode wire and high  
manganese flux, it was possible to increase to 300 m/hr  
the speed of deposition of a bead upon the surface of ring-  
shaped samples of 600 mm diameter. Welding in full  
depth was not possible with a sliding copper cushion,  
because this could not be brought into contact with the  
surfaces of the sample. At this point of the development, there-  
fore welding was carried out to a depth of 75 to 80 per  
cent of the total thickness. The required strength was  
achieved by the use of a layered seam.

*YAKUSHIN, U.U.*

21(6) SERIALS  
 Vsesoyuznaya promstnoe-tekhnicheskaya konferentsiya po radioaktivnym isotopevym metodam v metallovedenii i mehanike. Doklady 1. Sverdlovsk: Naukova kniga, 1957.  
 Trudy ... Moshchnostroyeniya i radioaktivnykh (prilozheniya) nauchnykh dokladov na All-Union Conference on the Use of Radioactive and Stable Isotopes and Their Application in the National Economy and Science. Sverdlovsk and Moscow: Sverdlovskaya Gornozavodstvennaya i Tekhnicheskaya Knizhka, 1959. 358 p. 4,500 copies printed.

Sponsoring Agencies: USSR. Glavnaya upravlyayushchaya po ispol'sovaniyu atomnoy energii, and Akademika nauk SSSR.

Editorial Board of Sessi. V.I. Dikishin, Academician (Resp. Ed.), P.M. Shumilovskiy (Deputy Resp. Ed.), Yu. S. Zaslavskiy (Deputy Resp. Ed.), I.K. Tafitschenko, B.V. Verkhovskiy, S.P. Karakov, L.I. Petrenko, and N.D. Zelevinskaya (Secretary).

Ed. or Publishing House: P.M. Belyaev, Tech. Ed.; T.P. Polosova; purpose: This book is intended for specialists in the field of machine and instrument manufacture who use radioactive isotopes in the study of materials and processes.

COVERAGE: This collection of papers covers a very wide field of the utilization of tracer methods in industrial research and control techniques. The topic of this volume is the use of radioisotopes in machine and instrument manufacture. Individual papers discuss the applications of radiotracers techniques in the study of metals and alloys, problems of friction and lubrication, metal cuttings, engine performance, and defects in metals. Several papers are devoted to the use of radiotracers in the solution of industrial processes, recording and measuring devices, Quality control, flowmeter, level gauge, safety devices, radiation counters, etc. These papers represent contributions of various Soviet Institutes and laboratories. They were published as Transactions of the All-Union Conference on the Use of Radioactive and Stable Isotopes and Radiation in the National Economy and Science, April 4-12, 1957. No personalities are mentioned. References are given at the end of most of the papers.

Chernyakov, R.B. Method for Estimating the Degree of Degassing of Metals 108

Dulyayev, B.P., Yu.P. Borovskiy, L.M. Postnov, O.N. Magnitnaya. Study of the Processes of Carb Formation in Steel Molds 112

Vilkhin, A.I. (Tsentral'nyy nauchno-issledovatel'skiy institut perrouz metallurgii). - Central Scientific Research Institute of Ferrous Metallurgy. - Study of the Mechanism of the Basic Process in Hot Tin Plating 119

Jordan, G.O. and E.S. Purman. (Nauchno-issledovatel'skiy institut fiziko-tekhnicheskogo i gorno-promyshlennogo iskusstva - Scientific Research Institute of Geological and Mineral Resources). Use of Nuclear Radiation for the Measurement of Head-Tower Parameters 124

Verkhovskiy, N.I., V.A. Sotnikov, and V.V. Yakubkin (Fizicheskiy institut imeni P. N. Lebedeva - Institute of Physics named P.N. Lebedev, Academy of Sciences, USSR). Reduction of Errors in Measurements Performed With Scintillation Counters 127

Korobtsov, V.A. (Fizicheskiy institut imeni P.N. Lebedeva - Institute of Physics, Academy of Sciences, USSR). Radiation in Analytical Methods 131

Afanaseyev, V.M. Automation of Measurements and Recording of Radioactive Radiation Intensity 140

Rashchitin, V.G. Study of the Electrical Properties of Ionization Resistors 146

Sedulin, V.O. and A.A. Rudanovskiy (Nauchno-issledovatel'skiy institut geologicheskogo i gorno-promyshlennogo iskusstva - All-Union Coal Research Institute). Use of Radioactive Tracers in the Automation of Excavating and Drilling Machines 150

Jordan, G.O. and K.S. Purman (Nauchno-issledovatel'skiy institut tekhnicheskogo i gorno-promyshlennogo iskusstva - Scientific Research Institute for Heat-Power Instrument Making). Measuring the Density of Liquids With Gamma Radiation 153

21,5300 (2816,1033,1138)

S/120/60/000/006/005/045  
E032/E514

AUTHORS: Betin, Yu.P., Verkhovskiy, B. I., Zelevinskaya, N.G.  
and Yakushin, V. V.

TITLE: A Method for Increasing the Accuracy of Measurement of  
the Intensity of Radioactive Emission

PERIODICAL: Pribory i tekhnika eksperimenta, 1960, No.6, pp.23-27

TEXT: The principle of the method is as follows. The radiation detector is irradiated both by the radiation under investigation (intensity  $n_u$ ) and the radiation from a standard source (intensity  $n_k$ ). The total electrical signal produced in the detector under the action of the two radiations is fed into a common electronic device at the output of which two signals are separated out. The magnitude of one of them ( $U_1$ ) is proportional to the sum of the two intensities and the magnitude of the second ( $U_2$ ) is proportional to the standard intensity only. The signal  $U_1$  is used to determine the intensity of the radiation under investigation, whilst the signal  $U_2$  is used in the automatic control of the readings and their correction. The automatic correction of the readings is carried out by measuring the ratio  $U_1/U_2$ . In order to be able to separate out the signals  $U_1$  and  $U_2$  at the Card 1/4

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S/120/60/000/006/005/045  
E032/E514**A Method for Increasing the Accuracy of Measurement of the Intensity of Radioactive Emission**

output of the device, the magnitude of the control beam of radiation is periodically varied. The block diagram of the instrument is shown in Fig.1. The detector 1 is irradiated from the left by the radiation under investigation and from below by the control beam due to the additional source  $S_k$ . The control beam is modulated with a frequency  $\omega_0$  using a rotating absorber as shown in Fig.1. If the intensity of the control beam follows the law  $n_k(t) = n_k(1 + \sin \omega_0 t)$ , then the signal at the anode of the photomultiplier, across the load resistance of the ionization chamber, is of the form  $U = U_H + U_k(1 + \sin \omega_0 t)$ . The constant component  $U_H + U_k$  is thus proportional to the sum of the two intensities, while the amplitude of the variable component  $U_k$  is proportional to the intensity of the control beam. The total signal  $U$  is fed into a dynamic capacitor 2 in which it is transformed into an alternating signal with a frequency  $\omega_1 \gg \omega_0$  and is then amplified by the main amplifier 3. The amplifier is followed by a linear detector 4 which produces at its output the constant voltage

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E032/E514

A Method for Increasing the Accuracy of Measurement of the Intensity of Radioactive Emission

$U_1 = (U_4 + U_k) kk'_1$ , where  $k$  is the product of the voltage transformation coefficient of the dynamic capacitor  $\alpha$  and the amplification coefficient of the amplifier 1, and  $k'_1$  is a coefficient depending on the parameters of the detector. The component of the signal having a frequency  $\omega_0$  leaves the detector 4 into the amplifier 5 which is followed by a further detector 6; the latter isolates the constant voltage  $U_2 = U_k kk'' k_H k_2$ , where  $k_H$  is the amplification coefficient of the amplifier 5 and  $k''$  and  $k_2$  depend on the parameters of the detectors 4 and 6. The voltages  $U_1$  and  $U_2$  are fed into the electronic potentiometer 7, which is connected in such a way that its amplifier sees the difference between  $U_1$  and a fraction of  $U_2$ , which is applied to the rheochord of the potentiometer. The potentiometer is so arranged that its indications satisfy the condition

$$U_1/U_2 = r/R = p \quad (1)$$

where  $R$  is the resistance of the rheochord and  $r$  is a fraction Card 3/4

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S/120/60/000/006/005/045  
E032/E514

A Method for Increasing the Accuracy of Measurement of the Intensity  
of Radioactive Emission

of this resistance which feeds the amplifier of the potentiometer.  
The ratio  $r/R$  is shown directly by the potentiometer. It is shown  
that changes in the parameters of the detector of the radiation, the  
dynamic capacitor and the main amplifier have no effect on the  
measurements. Details are given of the basic circuits involved and  
some experimental tests performed with the apparatus. There are  
4 figures and 2 Soviet references.

ASSOCIATION: Fizicheskiy institut AN SSSR (Physics Institute AS USSR)

SUBMITTED: September 26, 1959

Card 4/4

TEL'NOV, Yu.Ya.; YAKUSHIN, V.V.

Optimum current supply conditions for FEU-33 and FEU-36 photo-multipliers. Prib. i tekhn. eksp. 7 no.3:136-138 My-Je '62.  
(MIRA 16:7)

1. Fizicheskiy institut AN SSSR.  
(Photoelectric multipliers)

ACCESSION NR: AP3002730

S/0120/63/000/v03/0104/0105

AUTHOR: Yakushin, V. V.TITLE: Integrator of  $10^{-14}$  amp current [based] on an S-95 electrostatic voltmeter

SOURCE: Pribory i tekhnika eksperimenta, no. 3, 1963, 104-105

TOPIC TAGS: low-current integrator, calculation of nonlinearity

ABSTRACT: An integrator has been developed with which currents of approximately  $10^{-14}$  amp can be measured. It is based on the S-95 electrostatic voltmeter, which has a leakage resistance of  $2 \times 10^{16}$  ohms. The voltmeter serves to measure the difference of potentials on the integrating capacitance. The current can be integrated by charge accumulation or by neutralization of the charge stored in the capacitance. With the integrator nonlinearity taken into account, formulas are derived showing the dependence of accuracy on the measured current and the time of measurement for both accumulation and

Card.1/2

ACCESSION NR: AP3002730

neutralization integrators. Orig. art. has: 2 figures and 2 formulas.

ASSOCIATION: Fizicheskiy institut AN SSSR (Physics Institute AN SSSR)

SUBMITTED: 04Jul62

DATE ACQ: 12Jul63

ENCL: 00

SUB CODE: 00

NO REF SOV: 001

OTHER: 000

Card 2/2

YAKUSHIN, V.V.; TEL'NOV, Yu.Ya.

Low counting-rate meter. Prib. i tekhn. eksp. 8 no.4:73-76  
J1-Ag. '63. (MIRA 16:12)

1. Fizicheskiy institut AN SSSR.

YAKUSHIN, V.V.; TEL'NOV, Yu.Ya.

Selecting the optimum feeding conditions for FEU-33 and FEU-  
36 photomultipliers. Prib. i tekhn. eksp. 8 no.4:120-122 J1-Ag '63.  
(MIRA 16;12)

1. Fizicheskiy institut AN SSSR.

ACC NR: AP7001941

SOURCE CODE: UR/0120/6E/000/006/0075/0078

AUTHOR: Yakushin, V. V.

ORG: Institute of Physics, AN SSSR, Moscow [Fizicheskiy institut AN SSSR]

TITLE: Time resolution of Cerenkov counter and Cerenkov shower spectrometer

SOURCE: Pribory i tekhnika eksperimenta, no. 6, 1966, 75-78

TOPIC TAGS: cerenkov counter, cerenkov spectrometer, cosmic ray shower

ABSTRACT: The time function is determined of collection of Cerenkov-radiation quanta by the photomultiplier cathode in a shower spectrometer. Fluctuation of flight time of electrons between photomultiplier dynodos is neglected as is the time fluctuation connected with recording circuits. In a numerical example, the resolution time and efficiency are determined of a spectrometer with a radiator made from TF-1 lead glass whose thickness is equal to 10 radiation lengths for 500-Mev electrons. Also, formulas for the resolution time of the Cerenkov counter are derived. Orig. art. has: 6 figures and 20 formulas.

SUB CODE: 18 / SUBM DATE: 17Nov65 / ORIG REF: 003 / OTH REF: 001

Card 1/1

UDC: 539.1.074.4

YAKUSHIN, V.V.

Pulse widener with de-energized diode. Prib. i tekhn. eks.  
10 no. 5:145-149 S-0 '65.

1. Fizicheskiy institut AN SSSR, Moskva. Submitted July 25,  
1964. (MIRA 19:1)

ZEMSKOV, P.I.; YAKUSHIN, Ye.N.; KHARCHENKO, Ye.N.

Wearing resistance of crankshafts from high-strength cast iron.  
Trakt. i sel'khozmash. no.1:41-43 Ja '64. ('MIRA 17:4)

1. Khar'kovskiy traktornyy zavod.

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962020010-0

YAKUSHINA, A.A.

Some fresh-water Cretaceous mollusks of the southern Maritime  
Territory. Trudy Lim. inst. 4:280-293 '64.

(MIRA 17:11)

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962020010-0"

16070  
S/135/62/000/001/009/016  
A006/A101

18:17:10  
AUTHORS: Yakushina, G. M., Engineer, Meshkova, O. V., Candidate of Technical Sciences, Yakushin, B. F., Engineer

TITLE: Comparison of some methods for evaluating the technological strength of aluminum alloys in welding

PERIODICAL: Svarochnoye proizvodstvo, no. 4, 1962, 23-26

TEXT: The authors compared results from evaluating the resistance of aluminum alloys to hot crack formation during welding. The results were obtained with the aid of various test methods. The tests were made with alloys whose crack sensitivity in welding was known from their use in welded structures. The investigations were carried out for the purpose of selecting the best test methods. The tests were made with three technological samples (cross-shaped, fishbone and round specimens) and with the use of the MVTU method, when the specimens are welded at  $q/v = \text{constant}$  and the specimen is stretched during crystallization perpendicularly to the seam axis at different rates. It was found that round specimens were suitable for the qualitative evaluation of hot crack resistance in the welding of alloys. For the quantitative evaluation the

Card 1/2

S/135/62/000/004/009/016

A006/A101

Comparison of some methods ...

MVTU method should be employed. To determine the proneness of alloy to the development of cracks, the cross-shaped and fishbone specimens can be used. However, the cross-shaped specimen yields a greater straggling of test results than the fishbone specimen and the welding process is hard to automate when using this type of sample. High metal consumption is another deficiency of cross-shaped specimens. The fishbone specimen is free of these defects and is more reliable in evaluating the proneness of the base and filler metals to the development of hot cracks in welding. There are 4 figures and 8 references: 5 Soviet-bloc and 3 non-Soviet-bloc.

Card 2/2

RABINOVICH, M.S.; LEVITOY, M.M.; KULIKOVA, G.N.; YAKUSHINA, L.M.;  
VERKHOTSEVA, T.P.; MELLER, F.M.

Synthesis of precursors and fragments of antibiotics. Part 7:  
Carboxy derivatives of mercaptoacetic acid. Zhur.ob.khim. 32  
no.4:1167-1172 Ap '62. (MIRA 15:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.  
(Acetic acid) (Antibiotics)

SHLYAPNIKOV, S.V.; KARPEYSKIY, M. Ya.; YAKUSHINA, L.M.; GIVLEDOCHIK, V.S.

Use of gas-liquid chromatography method for quantitative analysis  
of some amino acids. Biokhimia 30 no. 3 p.457-462 May-June 1965  
(MIRA 19:1)

1. Institut radiatsionnoy i fiziko-khimicheskoy biologii AN  
SSSR, Moskva.

MANUSADZHIAN, V.G.; YAKUSHINA, L.M.; VARSHAVSKIY, Ya.M.

Infrared spectra of di- and triamino alcohols. Dokl. AN Arm.  
SSR 39 no. 2:69-72 '64. (MIKA 17:9)

1. Predstavleno chlenom-korrespondentom AN Armyanskoy SSR  
N.M.Kocharyanom.

ZEMSKOV, P.I., kand. tekhn. nauk; KHARCHENKO, Ye.N., inzh.;  
YAKUSHINA, Ye.N., inzh.; KHAVINA, R.B., inzh.

Engine gearing made of high-strength cast iron. Lit. proizv.  
no.1:9-11 Ja '66. (MIRA 19:1)

YAKUSHKINA, N.I.; LIKHOLAT, T.V.

Effect of 2,4-D on the oxidative phosphorylation of mitochondria isolated from plants of different taxonomic groups. Dokl. AN SSSR 161 no.4:975-977 Ap '65. (MIRA 18:5)

1. Moskovskiy oblastnoy pedagogicheskiy institut im. N.K.Krupskoy.  
Submitted August 20, 1964.

SHERSTOBITOVA, M.; POLUEKTOV, N.; ANPILOGOVA, Yu.; YAKUSHINA, O.;  
ORLOVSKAYA, R.

More on veterinary control. Mias. ind. SSSR 29 no.2:20 '58.  
(MIRA 11:5)

1. Barnaul'skiy myasokombinat.  
(Meat inspection)

YAKUSHINA, S. I.

Aug 53

USSR/Medicine - Toxic Compounds  
Chemistry - Phosphorus Organic Compounds

"Determination of Thiophos (I), Phosphorus Trichloride (II), and Phosphorus Thiochloride (III) When They Are Present Together (in the Air)," S.I. Yakushina,  
Inst of Labor Hygiene and Occupational Diseases, Acad Med Sci USSR

Gig i San, No 8, p 53

For the detn of I, nitrophenolate (IV) is detd colorimetrically after sapon of I with Alkali, Absorption of I from the air is carried out by dissolving it in EtOH in a device provided with a porous glass plate. In a mixture of I and IV, IV is first detd colorimetrically and then the sum of I and IV on sapon. In a mixture of II and III, S and P are detd after II and III have been decomp. S is detd nephelometrically after reaction with BaCl<sub>2</sub>, P colorimetrically after reaction with ammonium molybdate.

Source #264T33

*YAKUSHINA, S.I.*

Determination of manganese in urine. *S. I. Yakushina*,  
*Farmakol. i Toksikol.* 18, No. 1, 64-6(1956).—Inorg. and  
organically bound Mn was detd. in rabbit urine by Mikhlin's  
method (*Farmakol. i Toksikol.* 11, 39-42(1948); *C.A.* 45,  
4347h) following peroral administration of  $MnCl_2$  for 10  
months. For the application of the method to urine analy-  
sis, the procedure was slightly modified in order to obtain  
more satisfactory results. Diomed M. Chern.

PRAVIKOVA, N.A.; DAVYDOVA, V.P.; KIRICHENKO, V.A.; YAKUSHINA, T.A.

Application of the turbidimetric titration method for determining  
the molecular weight distribution in siloxane polymers. Kauch. i  
rez. 24 no.10:19-22 '65. (MIRA 18:10)

1. Fiziko-khimicheskiy institut imeni L.Ya.Karpova, Moskva, i  
Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskogo  
kauchuka imeni S.V.Lebedeva.

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962020010-0

KAMENSKIY, I. V.; TSEPELEV, A. S.; YAKUSHINA, T. V.

Textolite based on melamine-formaldehyde resins modified by  
acetone. Plast. massy no. 5:67 '64. (MIRA 17:5)

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962020010-0"

YAKUSHINA, V.M.

Pathogenesis of lateral amyotrophic sclerosis. Zhur.nerv.i psich.  
59 no.12:1436-1443 '59. (MIRA 13:4)

1. Kafedra nervnykh bolezney (ispoln. obyazannosti zav. kafedroy -  
dotsent S.A. Mel'nikov) I Moskovskogo ordena Lenina meditsinskogo  
instituta imeni I.M. Sechenova.  
(AMYOTROPHIC LATERAL SCLEROSIS etiol.)

YAKUSHINA, V.M.

Clinical observation and treatment of amyotrophic lateral sclerosis. Zhur. nevr. i psikh. 62 no.2:252-256 '62. (MIRA 15:6)

1. Kafedra nervnykh bolezney (zav. - prof. V.V. Mikheyev) I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova.

(AMYOTROPIIC LATERAL SCLEROSIS)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962020010-0

IL'INA, N. I. dotsent; YAKUSHINA, V. M., assistant

Atactic syndrome as sequela of vertebral artery insufficiency in cervical osteochondrosis. Trudy 1-go MM 38:169-175 '65. (MIRA 18:10)

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962020010-0"

YAKUSHINA, V.M., assistant

Pain syndrome in Bechterew's disease. Trudy I-go MM 38:448-452 '65.  
(MIRA 18:10)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962020010-0

*V. S.*  
YAKUSHINA, V.S.

The operation of 4 DR 30/50 diesel engines. Rech.transp. 14  
no.8:27-28 Ag'55. (MLRA 8:11)  
(Diesel engines)

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962020010-0"

ZEMSKOV, P.I., dotsent; POGORELOV, I.D.; YAKUSHINA, Ye.N.

Soldering aluminum parts. Mashinostroitel' no.7:38-39 Jl '62.  
(MIRA 15:7)  
(Aluminum-Welding)

ZEMSKOV, P.I., kand. tekhn. nauk; YAKUSHINA, Ye.N., inzh.

Using pseudoalloys as substitutes for bronzes and babbitts.  
Mashinostroenie no.3:110 My-Je '63. (MIRA 16:7)

1. Khar'kovskiy traktornyy zavod.  
(Powder metallurgy)

ZEMSKOV, P.I.; YAKUSHINA, Ye.N.

Antifriction pseudoalloys for engine bearings. Avt. prom. 29  
no.7:21-23 Jl '63. (MIRA 16:8)

1. Khar'kovskiy traktornyj zavod.  
(Bearing metals)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962020010-0

ZEMSKOV, P.I., inzh.; POGORELOV, I.D., inzh.; YAKUSHINA, Ye.N., inzh.;  
KHARCHENKO, Ye.N., inzh.

Welding and soldering during the repair of AL10V aluminum  
alloy parts. Svar. proizv. no.8:40-41 Ag '63.  
(MIRA 17:1)

1. Khar'kovskiy zavod "Serp i molot".

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962020010-0"

ZEMSKOV, P.I.; KHARCHENKO, Ye.N.; YAKUSHINA, Ye.N.

High-strength cast iron for motor crankshafts. Int. patav. 5128-51  
My '64. (MIRA 13:3)

Yakushina, Ye. N.; Kharchenko, Ye. N.

object: Plastics Eye massy\*, no. 6, 1964, 54-57

WATERFALLS, RIVER, LAKES, FORESTS, MOUNTAINS, AND PLATEAUS ARE THE MOST RESISTANCE  
TO THE FLOW OF WATER. RIVERS, LAKES, AND OCEANS ARE THE LEAST RESISTANCE.

In loading, the coefficient  $m$  is equal to

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962020010-0

SUBMITTED: 00

ENCL: 00

SUB CODE: MT

NO. REF. BOX: 000

OTHER: 000

Caro 2/2  
APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962020010-0"

ZEMSKOV, P.I.; YAKUSHINA, Ye.N.

Investigating the operation of caproh bearings of motor vehicle  
and tractor engines. Avt. prom. 30 no.7:33-36 Jl '64.  
(MIRA 17:9)

1. Khar'kovskiy traktorny zavod.

ZEMSKOV, P.I., kand. tekhn. nauk, dotsent; YAKUSHINA, Ye.N., inzh.;  
KHARCHENKO, Ye.N., inzh.

Capron bearings of motor-vehicle and tractor engines. Izv.  
vys. ucheb. zav.; mashinostro. no.12:182-191 '64.  
(MIRA 18:3)

1. Khar'kovskiy institut inzhenerov kommunal'nogo khozyaystva.

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962020010-0

ZEMSKOV, P.I.; POGORELOV, I.D.; KHARCHENKO, Ye.N.; YAKUSHINA, Ye.N.

Devices for measuring the hardness of shaped parts. Stan. i instr.  
(MIRA 18:5)  
36 no.4:37-38 Ap '65.

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962020010-0

ZEMSKOV, P.I., kand.tekhn.nauk; KHAVINA, R.B., inzh.; DECTYAREVA, O.F., inzh.;  
YAKUSHINA, Ya.N., inzh.; KHARCHENKO, Ye.N., inzh.; ANISHCHENKO, V.V.,  
inzh.

Capron pinions for motor-vehicle engines. Mashinostroenie  
(MTRA 18:12)  
no. 6142-44 N-D '65.

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962020010-0

ZEMSKOV, P.I., dotsent; YAKUSHINA, Ye.N., inzh.; KHARCHENKO, Ye.N., inzh.;  
KHAVINA, R.B., inzh.; DEGTYAREVA, O.F., inzh.

Cermet piston rings. Izv. vys. ucheb. zav.; mashinostr. no. 10:  
123-128 '65 (MIRA 19:1)

1. Submitted April 17, 1964.

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962020010-0"

ACC NR: AP/006679 (A) SOURCE CODE: UR/0145/66/000/010/0121/0126

AUTHOR: Zemskov, P. I. (Lecturer); Zubenko, I. F. (Lecturer); Khavina, R. B. (Engineer); Yakushina, Ye. N. (Engineer); Degtyareva, O. F. (Engineer); Kharchenko, Ye. N. (Engineer)

ORG: Kharkov Institute of Communal Economy (Khar'kovskiy institut kommunal'nogo khozyaystva)

TITLE: Use of diffusion chrome plating to increase the durability of components

SOURCE: IVUZ. Mashinostroyeniye, no. 10, 1966, 121-126

TOPIC TAGS: metal diffusion plating, chromium plating, durability, antifriction metal

ABSTRACT: The authors study the antifriction properties and durability of components diffusion-plated with chromium. The specimens were put into iron containers with various chrome plating mixtures and the containers were then placed in a furnace where they were heated at 1075-1100°C for 6-8 hours. The chromium-containing medium was chromium oxide and ferrochrome. Four plating mixtures were used with the following compositions (in %): 1. FeCr--50, Al<sub>2</sub>O<sub>3</sub>--45, NH<sub>4</sub>Cl--5; 2. Cr<sub>2</sub>O<sub>3</sub>--80, C--6, NH<sub>4</sub>Cl--4, Al<sub>2</sub>O<sub>3</sub>--10; 3. Cr<sub>2</sub>O<sub>3</sub>--80, Ba<sub>2</sub>Co<sub>3</sub>--4, C--6, Al<sub>2</sub>O<sub>3</sub>--6, NH<sub>4</sub>Cl--4; 4. FeCl--45, Al<sub>2</sub>O<sub>3</sub>--6, Cr<sub>2</sub>O<sub>3</sub>--45, NH<sub>4</sub>Cl--4. Analysis showed that the surface layer in all cases contains 70-75% chromium and 6-8% aluminum. The depth of diffusion chrome plating for cast

Card 1/2

UDC: 621.785.53

ACC NR: AP7006679

iron depends on plating time up to 8-10 hours and then remains constant. Hardness also increases with holding time. It was found that knurling followed by chrome plating is preferable to porous chrome plating for improving oil adhesion on surfaces subjected to friction. The durability of components with chrome-plated knurled surfaces may be increased by treatment in a solid carbonizer of the following composition (in %) carbon--50,  $\text{Na}_2\text{CO}_3$ --20, Fe (filings)--30. The treatment consists of holding for 5 hours at 900°C. Tinned and sulfidized surfaces show the best running-in properties with coefficients of friction of 0.0500 and 0.0550. Parkerized specimens have slightly higher coefficients of friction--0.0670-0.0680. Chrome plating mixtures of the second and third compositions gave the best results with respect to wear. Orig. art. has: 2 figures, 1 table.

SUB CODE: 11/ SUBM DATE: 6Apr65/ ORIG REF: 005

Card 2/2

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962020010-0

ZEMSKOV, P.I., inzh.; YAKUSHINA, Ye.N., inzh.; KHARCHENKO, Ye.N., inzh.;  
KHAVINA, R.B., inzh.

Engine pinions made from high-strength cast iron. Mashinostroenie  
(MIRA 18:6)  
no.2:12-14 Mr-Ap '65.

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962020010-0"

YAKUSHKINA, Ye. P.

Absorption of feed amino acids by caterpillars of the  
mulberry silkworm. Uch. zap. MGPI 140:231-237 '58.  
(MIRA 16:8)

1. Iz laboratori organicheskoy i biologicheskoy khimii  
Moskovskogo gosudarstvennogo pedagogicheskogo instituta  
imeni Lenina.

DEMENT'YEV, V.A. [Dziaments'eu, V.A.]; SHKLYAR, A.Kh.; YAKUSHKA, O.F.

[Natural resources of White Russia, an account of its physical geography] Pryroda Belarusi; fizika-geografichny shliad. Minsk, Dzirzh.vuchebna-pedagog.vyd-va, 1959. 315 p. (MIRA 14:2)

(White Russia--Physical geography)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962020010-0

ZHUCHKEVICH, Vadim Andreyevich; YAKUSHKA, Ol'ga Philippovna;  
RZHEUTSKI, A.F., red.; SASINOVICH, A.I., tekhn. red.

[Geography of the White Russian S.S.R.; a textbook for secondary  
schools] Geografiia Belaruskai SSR; vuchebnyi dafamozhnik dla  
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va M-va asvety BSSR, 1961. 73 p.  
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(White Russia--Geography)

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962020010-0"

ZHUKOVA, O.G., otv. za vypusk; YAKUSHKIN, A.F., otv. za vypusk; VERINA,  
G.P., tekhn. red.

[Timetable of passenger trains (abbreviated); summer 1961] Ras-  
pisanie dvizheniya passazhirskikh poezdov (kratkoe); leto 1961 goda.  
Moskva, Vses. izdatel' poligr. ob"edinenie M-va putei soobshcheniya,  
(MIRA 14:8)  
1961. 259 p.

1. Russia (1923- U.S.S.R.) Glavnoye passazhirskoye upravleniye  
(Railroads—Timetables)

ZHUKOVA, O.G., otv. za vypusk; YAKUSHKIN, A.F., otv. za vypusk; KHITROV,  
P.A., tekhn.red.

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1. Russia (1923- U.S.S.R.) Ministerstvo putey soobshcheniya.  
(Railroads—Timetables)

ZHUKOVA, O.G., otv. za vypusk; YAKUSHKIN, A.F., otv. za vypusk  
TAULIN, B.A., otv. za vypusk.

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dvizheniya passazhirskikh pezdov (kratko); zima 1962/63.  
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1963. 739 p. (Railroads--Timetables)

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Vol. 3 No. 4  
Apr. 1954  
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Discusses selection of power equipment for drilling operations.  
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YAKUSHKIN, Dmitriy Ivanovich, : KATSNEL'SON, S.M., red.; ATROSHCHENKO, L.Ye.,  
tekhn. red.

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GORDEYEV, O.S., prof.; YAKUSHKIN, D.I.. Prinimali uchastiye: GORSKAYA, N.V.; GRANOVSKAYA, A.Ye.; YEVSTIGHEYEVA, Yu.G.; KRYLOV, M.V.; LEYKIN, D.I.; MAKHOVETSkiy, V.B.; MEYENDORF, A.L.; NAZAREMKO, V.I.; NICHIPORUK, O.K.; PAVLOV, L.I.; RUMYANTSEVA, N.V.; SOSENskiy, I.I.; CHERNEVskiy, Yu.V.; TULUPNIKOV, A.I., red.; SOLOV'YEV, A.V., prof., red.; RAKITINA, Ye.D., red.; ZUBRILINA, Z.P., tekhn.red.

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(Agriculture--Statistics)

YAKUSHKIN, F.A.; ALEKSEYEV, V.B.; LITVIN, G.A., kandidat tekhnicheskikh  
nauk, redaktor; VERINA, G.P., tekhnicheskiy redaktor

[Earthwork on railroad constructions by means of mechanized  
columns] Proizvodstvo zemlianykh rabot na zheleznodorozhnom  
stroitel'stve mekhanizirovannymi kolonnami. Moskva, Gos. transp.  
zhel-dor. izd-vo, 1954. 118 p. (MLRA 8:6)  
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CIA-RDP86-00513R001962020010-0

YAKUSHKIN, F. A., Cand Tech Sci -- (diss) "Research into the problem of mechanized planning of road bed in open-ground railroad lines." Moscow, 1960. 20 pp; (Ministry of Transport Construction USSR, All-Union Scientific Research Inst of Transportation Construction); 150 copies; price not given; (KL, 18-60, 153)

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CIA-RDP86-00513R001962020010-0"

YAKUSHKIN, F.A., inzh.

Efficient performance of screw planers. Transn.stroi. 10  
no.2:28-30 F '60.  
(Road machinery)

FEYGIN, Leonid Aleksandrovich; YAKUSHKIN, Georgiy Mikhaylovich  
[deceased]; KROMOSHCH, I.L., nauchn. red.; NAZARENKO,  
M.I., red.

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Transit time of passengers of the Moscow subway. Gor.khuz.Mosk.  
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Specialized Education RSFSR. Mos Order of Labor Red Banner Construction  
Engineering Inst im V. V. Kuybyshev). (KL, 4-61, 203)

270  
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SAMOYLOV, D.S., kand.tekhn.nauk; YAKUSHKIN, I.M., inzh.

Ways of improving the capacity of the subway. Gor.khoz.Mosk.  
35 no.5:25-27 My '61. (MIRA 14:6)  
(Moscow—Subways)

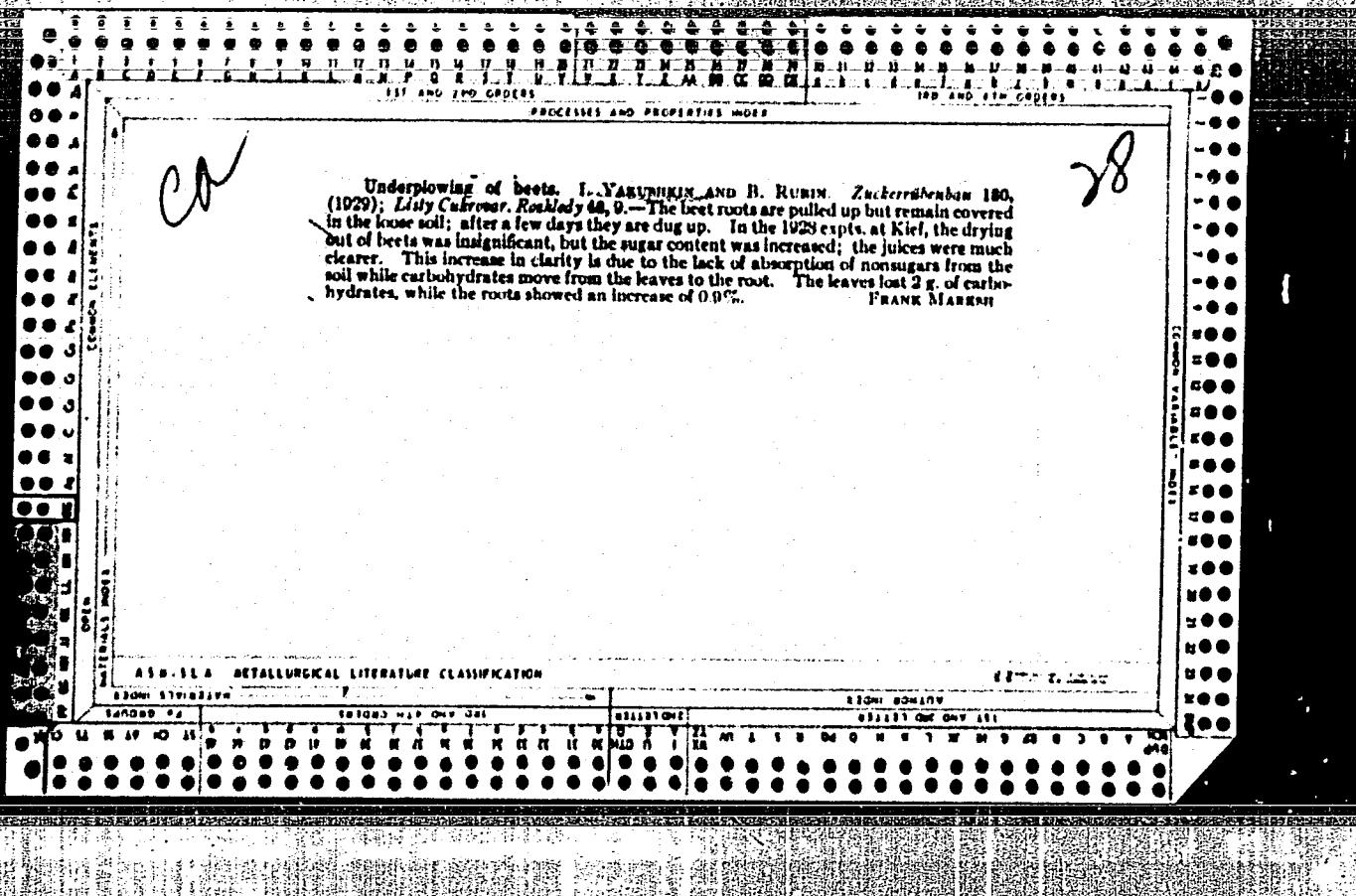
YAKUSHKIN, Ivan Vyacheslavovich, red.; BUZANOV, I.P., red.

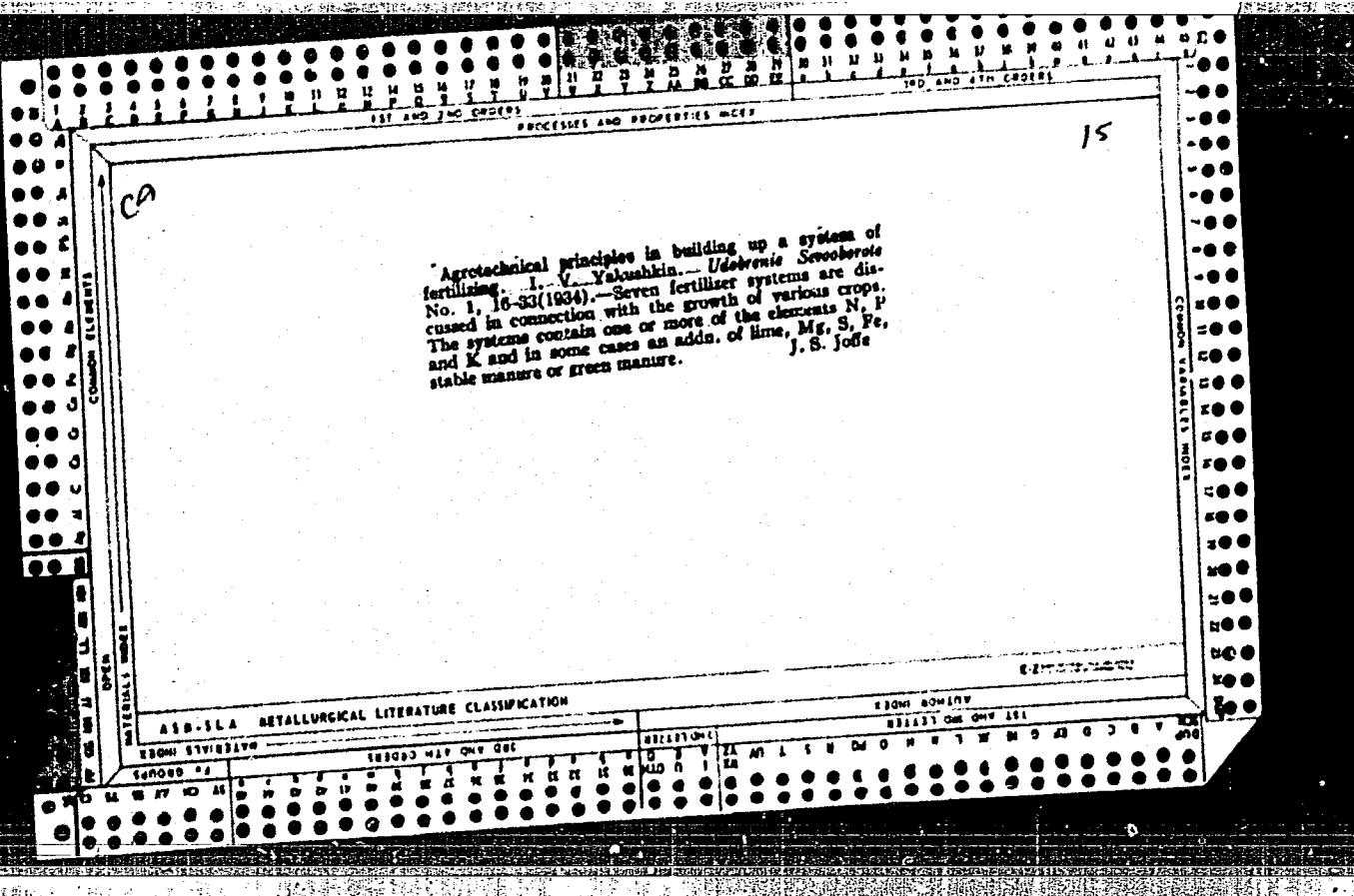
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(Sugar beets)

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We shall increase the production of industrial crops  
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IAKUSHKIN, I.V.

RT-769 Achievements of agronomical science for thirty years in USSR Iz uspekhov  
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redaktor; YUROVITSKIY, Ye. H.,redaktor; ABROSIMOV, M.A.,redaktor;  
GERASIMOV, P.K.,redaktor; D'YAKOV, M.I.,redaktor; SAVEL'YEV, B.V.,  
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78 p.

(MLRA 10:4)

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YAKUSHKIN, Ivan Vyacheslavovich

Agriculture

Long-fibered flax Moskva, Gos. izd-vo sel'khoz lit-ry, 1951

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Beets and Beet Sugar

Pre-harvest feeding of sugar beets through the leaves. Agrobiologiya No. 4, 1952.

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"Biochemistry of wheat." M. I. Knyag'inichev, Author. Reviewed by Acad. I. V. Yakushkin, S. I. Teumin. Sov. agron. 10, No. 8, 1952

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YAKUSHKIN, I. V.

Academician I. V. Yakushkin. Rasteniyevodstvo [Field-Crop Farming], second edition, revised, Sel'khozgiz, 70 sheets, 1953

On the basis of the latest achievements of agricultural science and advanced experience, this book presents the features of the biology and agricultural management of all field crops cultivated in the USSR: grain crops, leguminous grain crops, technical crops, and fodder crops.

It is intended for students of the agronomic faculties of agricultural institutes.

SO: U-6472, 12 Nov 1954

YAKUSHKIN, I.V., deystvitel'nyy chlen, laureat Stalinskoy premii; KDEL'SHTEYN,

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1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I. Lenina.  
(Beets and beet sugar)

YAKUSHKIN, I.V., akademik.

Increasing the crop yield of industrial crops. Priroda 42 no.8;3-11 4g  
'53. (MLRA 6:7)  
(Crop yields)

N/5  
723.9  
.Y1

YAKUSHKIN, IVAN VYACHESLAVOVICH.

O pod "Yeme urozhaynosti polevykh kul'tur (On the rise of crop productivity, by) I. V. Yakushkin i N. A. Smornov. Moskva, Tsvetizdat, 1954.

68 p. (Vpomoshch' lektoru)

"Rekomenduyemaya literatura": p. (70)

IAR SHAIN, A.Y.

Kukuruza i podsolnechnik na silos pri kvadratno-gnezdovom sposobe poseva v nechernozemnoi polose (Checkrowed corn and sunflower for silage in the nonchernozem belt). Moskva, Sel'-khozgiz, 1954. 12 p. (Glav. upr. s.-kh. propagandy i nauki M-va sel'skogo khoziaistva SSSR)

SO: Monthly List of Russian Accessions, Vol 7, No 9, Dec 1954

DIMEZER, A.A., redaktor; DZYUBA, M.L., redaktor; YUROVITSKIY, Ye.I.,  
redaktor; GERASIMOV, P.K., redaktor; KARAVAYEV, A.A., redaktor;  
PEROV, S.V., redaktor; SAVEL'YEV, B.V., redaktor; YAKUSHKIN, I.V.,  
redaktor; PERESYPKINA, Z.D., tekhnicheskij redaktor

[Collective farm worker's calendar for 1955] Kalendar' kolkhoznika  
na 1955 god. Moskva, Gos. izd-vo selkhoz. lit-ry, [1954] 174 p.  
[Microfilm]

(Agriculture--Yearbooks)

(MLRA 9:8)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962020010-0

CC: - As per enclosed memorandum to Major General  
Leverett S. Salter, USAF, Director of Personnel  
and Personnel Policies, Headquarters, U.S. Air Force,  
Washington, D.C., dated 10 May 1947.

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962020010-0"

YAKUSHKIN, I. V.

USSR/Agriculture

Card 1/1

Authors : Yakushkin, I. V., active member of the All-Union Academy of Agricultural Sciences (named for V. I. Lenin) and Chernomaz, P. A., Candidate in Agri. Sci.

Title : The complex agro-technical basis for abundant harvests

Periodical : Nauka i Zhizn' 21/4, 13-16, April 1954

Abstract : Despite the great advancements in agriculture the demands of the population for food and of industry for raw materials are not satisfied. Knowledge of the biological peculiarities of each plant is urged. Moisture should be preserved and methods of using snow plows and moisture traps of corn stalks, twigs, etc., are cited. The article deals with all phases of harvest-increasing schemes, stressing fertilizers. Sprinkling beets with a solution of super-sulfates and chloride of lime has been found to increase sugar content and for this work the airplane has been found convenient. Photographs.

Institution : ....

Submitted : ....

YAKUSHKIN, I. V.

USSR/Agriculture - Fertilization

Card 1/1 : Pub. 77, 20/26

Authors : Yakushkin, I. V., Active Mem. of the Lenin Agri. Acad.; and Ivannikov,  
Aspirant to the chair of plant culture, Timiryazev Acad.

Title : Feeding grain plants by air

Periodical : Nauka i zhizn' 21/7, 38, July 1954

Abstract : It is found that plants, especially grain, can be "fed" by sprinkling chemicals on the stalks as well as by embedding them in the soil to be absorbed by the roots. Successful work of this kind has been done by the use of an airplane. Figures of results obtained with various kinds of grain are presented. Illustration.

Institution : ...

Submitted : ...

YAKUSHKIN, Ivan Vyacheslavovich

[Feed production] Proizvodstvo kormov. Moskva, Gos. izd-vo selkhoz.  
lit-ry, 1955. 302 p.  
(Forage plants)

(MLRA 9:9)

YAKUSHKIN, IVAN VYACHESLAVOVICH, ED

N/5  
632.801  
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1955

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ZERNOBOBOBYVE KUL'TURY (CEREAL AND VEGETABLE SEED CULTURES) POD. RED. I. V.  
YAKUSHKINA I P. YE. SEL'KHOZGIZ, 1955

327 P. ILLUS., TABLES (TREKHLETNIYE KOLKHOZNYYE AGROZOOTEKHNIKESKIYE KURSY.  
VTOROY GOD OBUCHENIYA)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962020010-0

YAKUSHKIN, IVAN VYACHESLAVOVICH, ED.

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